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July 11, 1973

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Re: Dr. Thomas F. Mancuso

In June of last year, you authorized a one year, \$75,000 research project by Thomas F. Mancuso. The funding began on July 1, 1972, and was handled through CTR as a Special Project.

When I wrote to you on June 13, 1972, recommending its approval, I indicated that the study was expected to generate and utilize data to show relationships between diseases, including cancer of the lung, and factors such as (1) place of birth and early life environment, (2) subsequent occupational-environmental exposures, (3) race, etc. I am pleased to now enclose a "confidential" copy of a draft manuscript co-authored by Dr. Mancuso and Dr. Sterling entitled "Relation of Place of Birth, Migration and Environment in Cancer Mortality." I believe the data presented in this manuscript demonstrate the strength of these relationships.

I understand that the manuscript will be submitted to the Journal of Chronic Diseases. Since actual publication is probably some months away, Dr. Mancuso is trying to arrange for a presentation of some portions of his findings at an appropriate scientific meeting.

The significance of these study results have been described by Dr. Mancuso as follows:

1. The data presented demonstrate the weakness in the basic foundation of the case against cigarettes. The influences of genetics, microchemical environment and virus, for example, are clearly indicated.

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2. Prior epidemiological studies (i.e. Hammond, Dorn) did not take into consideration factors here emphasized by Dr. Mancuso. Such studies will now have to be "re-evaluated" in the light of these findings. For example, the non-white, southern-born had a 100% greater incidence of lung cancer than did their Ohio-born counterparts. (Page 9 of the manuscript.)

3. Dr. Mancuso also believes the paper points out the host factors involved in the development of cancer. He concludes that "blanket statements" about the development of cancer in the United States can no longer be made.

In view of the continuing claims that cigarettes are the "major cause" of lung cancer, I believe that Dr. Mancuso's findings will be a significant contribution to the literature. As noted on Page 10 of the manuscript, "The findings are not compatible with the concept that a single factor, smoking, is the major cause of lung cancer."

Although he is presently performing research for both N.C.I. and A.E.C., Dr. Mancuso is interested in pursuing his study of the Ohio data. He has submitted a study proposal entitled "Relation of Place of Birth and Migration to Mortality Due to Heart Disease." A copy of this proposal is enclosed, together with a budget.

In brief, some of the advantages of the proposed study are:

1. It would logically follow the cancer study.
2. A study of mortality from heart disease as related to place of birth and migration on the scale contemplated would be unique. Dr. Mancuso does not know of any other study which contains data of the high quality that he would have available.
3. The proposed study could be accomplished in a year (probably less) and would result in the publication of one or more papers.
4. Whether or not the observations are the same as those in the cancer study, they can be helpful in that (a) if the findings are not the same as the cancer study, such a result would show the uniqueness of the cancer work and would "add further weight to these observations pertaining to cancer," and (b) if the findings are the same as the cancer study, then place of birth and migration must be considered in any analysis of the etiological factors associated with heart disease.

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Dr. Mancuso presently has most of the raw data necessary to perform the proposed study. Further, the necessary programs for data analysis, personnel and equipment are available. As a result of these and other considerations, the proposed work can be accomplished for \$24,400, a sum considerably less than it would cost otherwise.

I believe it is important that we continue to support Dr. Mancuso and recommend your favorable consideration of his present proposal. We propose that Dr. Mancuso be funded through CTR as a Special Project.

I will look forward to hearing from you at your earliest convenience.

Sincerely,



David R. Hardy

DRH:sb
Enclosures

cc: Alexander Holtzman, Esq.
Lester Pollack, Esq.

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